

B27

**Bifunctional prot ins.**

Patent Number:  EP0288809, B1  
Publication date: 1988-11-02  
Inventor(s): HABERMANN PAUL DR  
Applicant(s): HOECHST AG (DE)  
Requested Patent:  DE3712985  
Application Number: EP19880105693 19880409  
Priority Number(s): DE19873712985 19870416  
IPC Classification: C12N15/00; C07K13/00; C12P21/00; A61K37/02  
EC Classification: C12N15/62, C07K14/535, C07K14/55  
Equivalents: AU1466188, AU613022, CA1322157,  DK170741B, DK209188, ES2033981T, FI881743, FI98830B,  FI98830C, HU47319, IE61574, IL86086, JP2667193B2,  JP63301898, KR9700187, NO176922B, NO176922C, NO881658, NZ224247, PH25327,  PT87237, ZA8802659  
Cited Documents: EP0228018; EP0227938; EP0163249; EP0158198; WO8504673; EP0194818; EP0142268; EP0136489; WO8702060; EP0183350

---

**Abstract**

---

Bifunctional proteins obtainable by genetic engineering from an interleukin-2 and a granulocyte-macrophage "colony stimulating" factor fraction have the biological activity of both components, but are distinguished by increased stability. These proteins are thus medicaments which are suitable for the treatment of malignant neoplasms.

---

Data supplied from the esp@cenet database - I2

---